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NOTICE OF ALLOWANCE AND FEE(S) DUE

21186 7590 05/18/2010

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
P.O. BOX 2938
MINNEAPOLIS, MN 55402

EXAMINER	
DINH, KHANH Q	
ART UNIT	PAPER NUMBER
2451	

DATE MAILED: 05/18/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,135	10/14/2003	Mark Anderson	2054.001US4	7593

TITLE OF INVENTION: METHOD AND SYSTEM TO COLLECT GEOGRAPHIC LOCATION INFORMATION FOR A NETWORK ADDRESS UTILIZING GEOGRAPHICALLY DISPERSED DATA COLLECTION AGENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$1510	$1510	08/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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MINNEAPOLIS, MN 55402

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,135	10/14/2003	Mark Anderson	2054.001US4	7593

TITLE OF INVENTION: METHOD AND SYSTEM TO COLLECT GEOGRAPHIC LOCATION INFORMATION FOR A NETWORK ADDRESS UTILIZING GEOGRAPHICALLY DISPERSED DATA COLLECTION AGENTS

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nonprovisional	NO	$1510	$0	$1510	$1510	08/18/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
DINH, KHANH Q	2451	709-245000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 ______________________________

2 ______________________________

3 ______________________________

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies ______________________

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____________ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature ____ Date ____

Typed or printed name ____ Registration No. ____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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2451	

DATE MAILED: 05/18/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 844 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 844 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	**Application No.** 10/686,135	**Applicant(s)** ANDERSON ET AL.	
	Examiner Khanh Q. Dinh	**Art Unit** 2451	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/23/2010*.

2. ☒ The allowed claim(s) is/are *1-48*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a) ☐ All b) ☐ Some* c) ☐ None of the:
        1. ☐ Certified copies of the priority documents have been received.
        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
    * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Khanh Q Dinh/
Primary Examiner, Art Unit 2451

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James H. Salter (the Undersigned Attorney, Reg. No.35,668) on 10/9/2010.

The application has been amended as follows:

IN THE CLAIMS:

Please **amend** claim 47 as follows:

1.(Previously Presented) A method to collect geographic location information, the method comprising:

collecting geographic location information associated with a network address on an internet protocol (IP) network, the geographic location information being collected from a plurality of geographically dispersed data collection agents capable of individually performing at least one data collection operation in the IP network, the at least one data collection operation including performing a traceroute operation, each data collection operation having an associated confidence value indicative of a likelihood of the data collection operation to determine accurate geographic location information:

controlling the plurality of geographically dispersed data collection agents utilizing a data collection broker, the data collection broker determining which data collection operation each data collection agent is to perform;

utilizing the geographic location information to associate a geographic location with the network address in the IP network; and

associating at least one confidence factor with the geographic location, the confidence factor being derived from the confidence values associated with the least one data collection operation.

2. (Original) The method of claim 1, including deploying the plurality of geographically dispersed agents at a plurality of respective and separate service providers.

3. (Previously Presented) The method of claim 1, wherein the collecting of the geographic location information includes performing a plurality of traceroute operations with respect to the network address.

4. (Original) The method of claim 1, wherein the collecting of the geographic location information includes determining validity of the geographic location information utilizing built-in metrics.

5. (Previously Presented) The method of claim 1, wherein the data collection broker instructing the data collection agents to upload their geographic location information to a data collection database.

6. (Previously Presented) The method of claim 1, including controlling a further plurality of geographically dispersed data collection agents utilizing a further data collection broker.

7. (Previously Presented) The method of claim 1, including, utilizing the data collection broker, determining which data collection agents of the plurality of data collection agents are most appropriate for the collecting of the geographic location information.

8. (Previously Presented) The method of claim 1, wherein each of the plurality of data

collection agents is to advise the data collection broker regarding a success or a failure of a search conducted to collect the geographic location information.

9.(Original) The method of claim 6, including transferring the collecting of the geographic location information from the data collection broker to the further data collection broker, associated with the further plurality of geographically dispersed data collection agents.

10. (Previously Presented) The method of claim 1, including providing the geographic location information from each of the plurality of dispersed data collection agents to the data collection broker.

11. (Original) The method of claim 10, including, utilizing the data collection broker, storing the geographic location information within a collection database.

12. (Original) The method of claim 1, wherein an analysis module utilizes the geographic location information to associate the geographic location with the network address.

13. (Original) The method of claim 1, wherein at least one of the plurality of geographically dispersed data collection agents is capable of performing a plurality of data collection operations.

14. (Original) The method of claim 13, wherein the plurality of data collection operations is in accordance with a plurality of analysis techniques utilized by an analysis module.

15. (Previously Presented) The method of claim 14, wherein the data collection broker is to determine which of the plurality of analysis techniques, utilized by the analysis module, is to be utilized by the analysis module with respect to the network address.

16. (Original) The method of claim 10, wherein at least one of the plurality of geographically dispersed data collection agents locally stores the geographic location information, collected utilizing one or more searches, and batch updates the data collection broker utilizing the locally

stored geographic location information.

17. (Original) The method of claim 3, wherein the collecting of the geographic location information includes launching first and second traceroutes from respective first and second collection agents of the plurality of geographically dispersed data collection agents.

18. (Original) The method of claim 17, wherein each of the first and second traceroutes is with respect to the network address.

19. (Original) The method of claim 18, including computing a similarity of the first and second traceroutes to generate a confidence factor for the geographic location associated with the network address.

20. (Original) The method of claim 18, wherein the association of the geographic location with the network address includes determining whether each of the first and second traceroutes proceeds through a common set of routers.

21. (Original) The method of claim 18, wherein the association of the geographic location with the network address includes determining that each of the first and second traceroutes terminates at or approximate the geographic location.

22. (Original) The method of claim 18, wherein the association of the geographic location with the network address includes extrapolating a direction indication for the geographic location, utilizing knowledge of locations of routers in each of the first and second traceroutes.

23. (Original) The method of claim 22, including extrapolating a plurality of direction indications utilizing the knowledge of the locations of the routers in each of the first and second traceroutes, and identifying the geographic location utilizing the plurality of direction indications.

24. (Previously Presented) A system to collect geographic location information, the system comprising:

a plurality of geographically dispersed data collection agents being deployable in an internet protocol (IP) network, each of the plurality of data collection agents being capable of individually performing at least one data collection operation to collect geographic location information associated with a network address in the IP network, the at least one data collection operation including performing a traceroute operation, each data collection operation having an associated confidence value indicative of a likelihood of the data collection operation to determine accurate geographic location information;

a data collection broker to control the plurality of geographically dispersed data collection agents, the data collection broker to determine which data collection operation each data collection agent is to perform;

an analysis module to associate a geographic location with the network address in the IP network utilizing the collected geographic location information; and

a confidence map to associate at least one confidence factor with the geographic location~ the confidence factor being derived from the confidence values associated with the least one data collection operation.

25. (Original) The system of claim 24, wherein the plurality of geographically dispersed data collection agents are deployed at a plurality of respective and separate service providers.

26. (Previously Presented) The system of claim 24, wherein at least one of the plurality of geographically dispersed data collection agents is to collect the geographic location information by performing a plurality of traceroute operations with respect to the network address.

27. (Original) The system of claim 24, wherein at least one of the plurality of geographically dispersed data collection agents is to determine validity of the geographic location information utilizing built-in metrics.

28. (Previously Presented) The system of claim 24, wherein the data collection broker to instruct the data collection agents to upload their geographic location information to a data collection database.

29. (Previously Presented) The system of claim 24, including a further data collection broker to control a further plurality of geographically dispersed data collection agents.

30. (Previously Presented) The system of claim 24, wherein the data collection broker is to determine which data collection agents of the plurality of data collection agents are most appropriate for the collecting of the geographic location information.

31. (Previously Presented) The system of claim 24, wherein each of the plurality of data collection agents is to advise the data collection broker regarding a success or a failure of a search conducted to collect the geographic location information.

32. (Original) The system of claim 29, wherein the data collection broker is to transfer the collecting of the geographic location information to the further data collection broker, associated with the further plurality of geographically dispersed data collection agents.

33. (Previously Presented) The system of claim 24, wherein each of the plurality of dispersed data collection agents is to provide the geographic location information to the data collection broker.

34. (Original) The system of claim 33, including a collection database, wherein the data collection broker is to store the geographic location information within the collection database.

35. (Original) The system of claim 24, including an analysis module to utilize the geographic location information to associate the geographic location with the network address.

36. (Original) The system of claim 24, wherein at least one of the plurality of geographically dispersed data collection agents is capable of performing a plurality of data collection operations.

37. (Original) The system of claim 36, wherein the plurality of data collection operations is in accordance with a plurality of analysis techniques utilized by an analysis module.

38. (Previously Presented) The system of claim 37, wherein the data collection broker is to determine which of a plurality of analysis techniques, utilized by the analysis module, is to be utilized by the analysis module with respect to the network address.

39. (Original) The system of claim 33, wherein at least one of the plurality of geographically dispersed data collection agents is to locally store the geographic location information, collected utilizing one or more searches, and to batch update the data collection broker utilizing the locally stored geographic location information.

40. (Original) The system of claim 24, wherein the collecting of the geographic location information includes launching first and second traceroutes from respective first and second collection agents of the plurality of geographically dispersed data collection agents.

41. (Original) The system of claim 40, wherein each of the first and second traceroutes is with respect to the network address.

42. (Previously Presented) The system of claim 40, including computing a similarity of the first and second traceroutes to generate the confidence factor for the geographic location associated with the network address.

43. (Original) The system of claim 40, wherein the association of the geographic location with

the network address includes determining whether each of the first and second traceroutes proceeds through a common set of routers.

44. (Original) The system of claim 40, wherein the association of the geographic location with the network address includes determining that each of the first and second traceroutes terminates at or approximate the geographic location.

45. (Original) The system of claim 40, wherein the association of the geographic location with the network address includes extrapolating a direction indication for the geographic location, utilizing knowledge of locations of routers in each of the first and second traceroutes.

46. (Original) The system of claim 45, including extrapolating a plurality of direction indications utilizing the knowledge of the locations of the routers in each of the first and second traceroutes, and identifying the geographic location utilizing the plurality of direction indications.

47. (Currently Amended) A machine-readable non-transitory storage medium storing a set of instructions that, when executed by a machine, cause the machine to:

collect geographic location information associated with a network address in an internet protocol (IP) network, the geographic location information being collected from a plurality of geographically dispersed data collection agents capable of individually performing at least one data collection operation in the IP network, the at least one data collection operation including performing a traceroute operation, each data collection operation having an associated confidence value indicative of a likelihood of the data collection operation to determine accurate geographic location information:

control the plurality of geographically dispersed data collection agents utilizing a data collection broker, the data collection broker to determine which data collection operation each data collection agent is to perform;

utilize the geographic location information to associate a geographic location with the network address in the IP network; and

associate at least one confidence factor with the geographic location, the confidence factor being derived from the confidence values associated with the least one data collection operation.

48. (Previously Presented) A system to collect geographic location information, the system comprising:

a plurality of geographically dispersed data collection means being deployable in an internet protocol (IP) network, each of the plurality of data collection means for individually performing at least one data collection operation to collect geographic location information associated with a network address in the IP network, the at least one data collection operation including performing a traceroute operation, each data collection operation having an associated confidence value indicative of a likelihood of the data collection operation to determine accurate geographic location information:

a data collection broker means to control the plurality of geographically dispersed data collection means, the data collection broker means to determine which data collection operation each data collection means is to perform;

an analysis means for associating a geographic location with the network address in the IP network utilizing the collected geographic location information; and

a confidence map means to associate at least one confidence factor with the geographic location, the confidence factor being derived from the confidence values associated with the least one data collection operation.

Allowable Subject Matter

2. Claims 1-48 are allowed.

Reason for allowance

3. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104(e). In this case, the substance of applicant's remarks filed on 3/17/2010 with respect to the added claim limitation point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FOLLANSBEE JOHN, can be reached on (571) 272-3964. The fax phone number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Khanh Dinh/

Primary Examiner, Art Unit 2451